



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/528,758

08/29/2005

Asoka Korale

CE10051EP

6727

22917 7590 08/28/2008  
MOTOROLA, INC.  
1303 EAST ALGONQUIN ROAD  
IL01/3RD  
SCHAUMBURG, IL 60196

EXAMINER

HEIBER, SHANTELL LAKETA

ART UNIT

PAPER NUMBER

2617

NOTIFICATION DATE

DELIVERY MODE

08/28/2008

ELECTRONIC

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Docketing.Schaumburg@motorola.com  
APT099@motorola.com

<b>Office Action Summary</b>	<b>Application No.</b> 10/528,758	<b>Applicant(s)</b> KORALE ET AL.	
	<b>Examiner</b> SHANTELL HEIBER	<b>Art Unit</b> 2617	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 19 May 2008.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-3,5,11,12,15,16,18,23 and 25-27 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-3,5,11,12,15,16,18,23 and 25-27 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 3/18/05 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)          | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

## DETAILED ACTION

### *Claim Rejections - 35 USC § 103*

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-3, 5, 11, 12, 15, 16, 18, 23 and 25-27 are rejected under 35 U.S.C. 103(a) as being unpatentable over Amin, EP0888025 in view of Mashinsky, U.S. Publication No. 2006/0160543.

**Regarding Claims 1 and 25**, Amin discloses a resource management apparatus for a cellular communication system; comprising a resource controller operable to allocate a radio resource to a subscriber unit in response to an operator identity associated with a service of the subscriber unit, wherein the resource controller is operable to allocate a first radio resource resulting in a first quality of service if the operator corresponds to a cellular communication system operator **(service provider A)** and a second radio resource resulting in a different quality of service if the operator identity corresponds to a cellular communication system operator **(service provider B)**. **(A wireless communication system is configured to allow for the provisioning of partitioned telecommunication service to subscribers. The wireless network is owned and maintained by two service providers, service provider A and service provider B. Each service provider can provide its subscribers with customized services and features even though the two service providers share the same**

**basic wireless infrastructure nodes. A wireless switch contains a partition table which associates a service provider with each wireless terminal which has the switch as its home switch, the switch provides such services using resources associated with the service provider associated with the subscriber; See abstract, Col. 3, line 13-Col. 4, line 44 and Col. 5, lines 1-55)**

Amin fails to disclose an operator identity corresponding to a Mobile Virtual Network Operator.

In a similar field of endeavor, Mashinsky discloses a method and system for dynamic spectrum management. Mashinsky further discloses an operator identity corresponding to a Mobile Virtual Network Operator. **[0059] and [0082] & Figure 14.**

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to provide for dynamic spectrum allocation and management that does not require substantial changes to the existing network architecture (Mashinsky) which allows service providers to share the basic resources of a network while allowing each service provider to customize the services and features provided to its subscribers (Amin).

**Regarding Claims 2 and 26,** Amin and Mashinsky disclose wherein the cellular communication system has a common radio access network resource divided into a first partition for a first operator **(service provider A)** and a second partition for a second operator **(service provider B)**, and the resource controller is operable to allocate resource from the first partition if the operator identity corresponds to the first operator

and from the second partition if the operator identity corresponds to the second operator. **(Amin-Col. 4, lines 45-48 and Col. 5, lines 1-31)**

**Regarding Claims 3 and 27**, Amin and Mashinsky disclose wherein the resource management controller comprises: control means for independently controlling at least one quality of service parameter associated with the first partition of the common radio access network resource in response to a first preference parameter of the first operator, and at least one quality of service parameter associated with the second partition of the common radio access network resource in response to a second preference parameter of the second operator. **(Amin-Col. 4, lines 36-48; Col. 5, lines 49-55 and Col. 7, lines 47-53)**

**Regarding Claim 5**, Amin and Mashinsky disclose wherein the control means comprise a first quality of service controller for independently controlling the at least one quality of service parameter associated with the first partition and a second quality of service controller for independently controlling the at least one quality of service parameter associated with the second partition. **(See rejection for Claim 3).**

**Regarding Claim 11**, Amin and Mashinsky disclose wherein the first quality of service controller comprises a first power control controller for controlling transmit powers associated with the first partition and the second quality of service controller comprises a second power control controller for controlling transmit powers associated with the second partition. **Mashinsky-[0062] and [0063].**

**Regarding Claim 12**, Amin and Mashinsky disclose wherein the control means is operable to control the at least one quality of service parameter associated with the

first partition and the at least one quality of service parameter associated with the second partition in response to at least one common parameter for the first and second partition. **(See rejection for Claim 3).**

**Regarding Claim 15**, Amin and Mashinsky disclose wherein the resource management apparatus comprises means for dynamically varying the partitioning of resource into said first and second partition. **(Amin-Col. 8, lines 1-4)**

**Regarding Claim 16**, Amin and Mashinsky disclose wherein the partitioning of resource into the first and second partition is in response to a resource usage in said first and second partition. **(Amin-Col. 5, lines 32-48 and Col. 6, lines 22-42)**

**Regarding Claim 18**, Amin and Mashinsky disclose wherein both the first and second partition comprises resource associated with equipment shared between the first and second operator. **(Amin-Col. 4, lines 36-50 and Col. 5, lines 1-31)**

**Regarding Claim 23**, Amin and Mashinsky disclose further comprising means for associating the operator identity to a service of a subscriber unit when initiating the service. **(Amin-Col. 5, lines 1-48)**

### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to SHANTELL HEIBER whose telephone number is (571)272-0886. The examiner can normally be reached on Monday-Friday 9:00am-5:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on 571-272-7922. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/S. H./  
Examiner, Art Unit 2617  
August 4, 2008

/Lester Kincaid/  
Supervisory Patent Examiner, Art Unit 2617